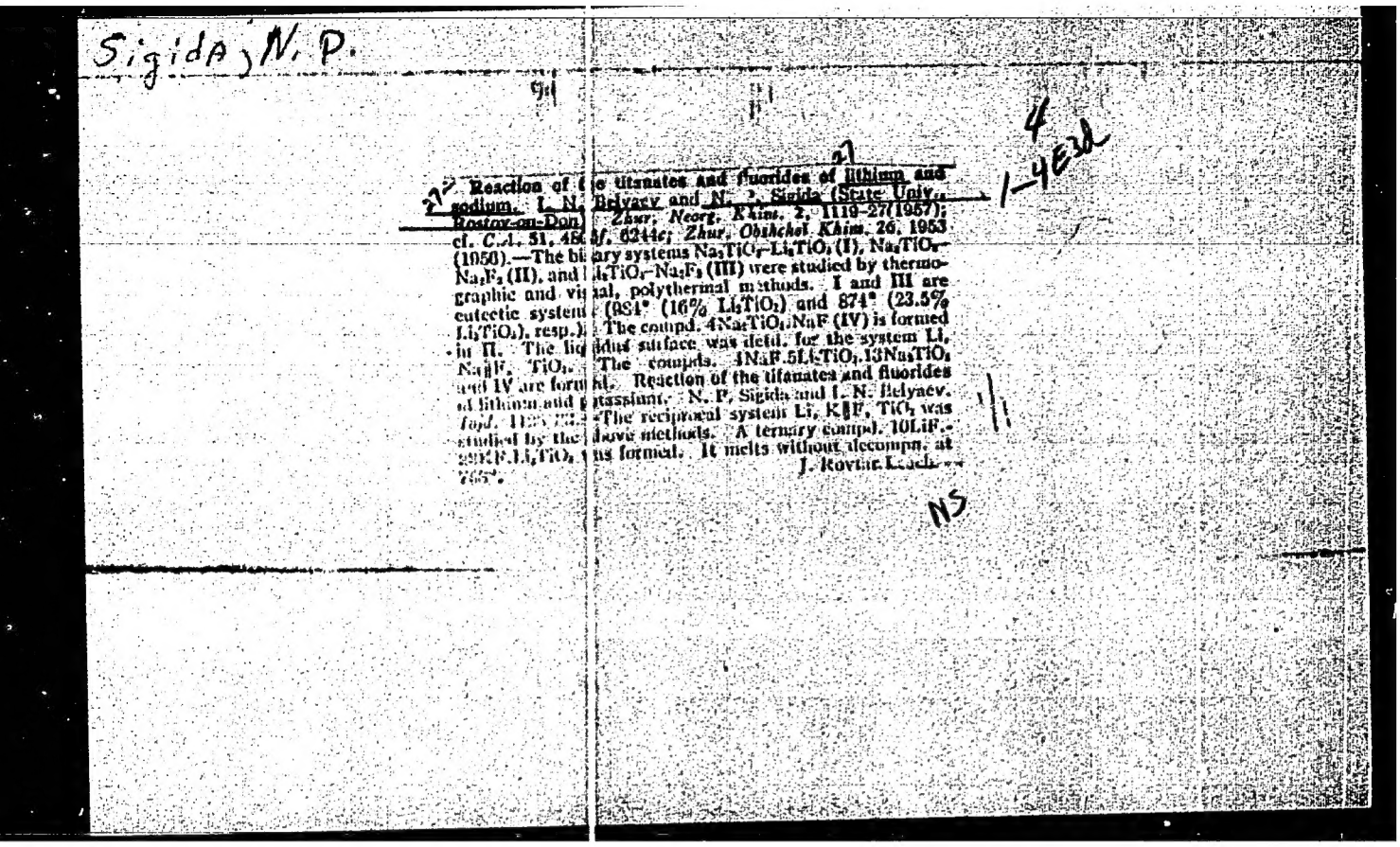
SIGIDA, N.P.; BELYAYEV, I.N.

Part 3: Interaction of titanates and fluorides of lithium and potassium. Zhur. neorg. khim. 2 no.5:1126-1133 My '57. (MLRA 10:8)

1. Rostovskiy-na-Donu gosudarstvennyy universitet Kafedra obshchey i neorganicheskoy khimii.
(Systems (Chemistry)) (Alkali metal fluorides)
(Alkali metal titanates)



Sigida, N. P.

4
1-4630

Reaction of (
sodium. I. N.
Rostov-on-Don
cf. C.A. 51, 48
(1950).—The bi
Na_2F_2 (II), and
graphic and vi
eutectic system
Li_2TiO_3), resp.)
in II. The liq
Na_2F, TiO_2,
and IV are form
d lithium and
Zhur. ...
studied by the
29)(F, Li_2TiO_3,
765".

e titanates and fluorides of lithium and
Belyaev and N. P. Sigida (State Univ.,
Zhur. Neorg. Khim. 2, 1119-27(1957);
cf. 6244c; Zhur. Obshchei Khim. 26, 1953
ary systems Na_2TiO_3–Li_2TiO_3 (I), Na_2TiO_3–
Li_2TiO_3–Na_2F_2 (III) were studied by thermo-
al, polythermal methods. I and III are
(884° (16% Li_2TiO_3) and 874° (23.5%
The compd. $4Na_2TiO_3.NaF$ (IV) is formed
idus surface was detd. for the system Li_2,
The compds. $4NaF.5Li_2TiO_3$, $13Na_2TiO_3$
al. Reaction of the titanates and fluorides
assium. N. P. Sigida and I. N. Belyaev.
The reciprocal system Li, K||F, TiO_2 was
above methods. A ternary compd., $10LiF.$
ns formal. It melts without decompn. at
J. Rovtar Leach

NS

78-2-24/43

AUTHORS: Belyayev, I. N., Sigida, N. P.

TITLE: IV. The Interaction of Titanates and Phosphates of Potassium in the Crystallization from the Melts (IV. Vzaimodeystviye titanatov i fosfatov kaliya pri kristallizatsii iz rasplavov). Investigations of the Ternary System K_2TiO_3-$K_4P_2O_7$-TiO_2 and K_2TiO_3-$K_4P_2O_7$-K_3PO_4 (Issledovaniye troynykh sistem K_2TiO_3-$K_4P_2O_7$-TiO_2 i K_2TiO_3-$K_4P_2O_7$-K_3PO_4).

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 2, pp. 425-432 (USSR).

ABSTRACT: The liquidus surface of the systems K_2TiO_3-$K_4P_2O_7$-TiO_2 and K_2TiO_3-$K_4P_2O_7$-K_3PO_4 was investigated. It was found that the third phase in the liquidus of the system K_2TiO_3-$K_4P_2O_7$ represents a potassium orthophosphate which is formed according to the following reaction:

$$x\ K_2TiO_3 + y\ K_4P_2O_7 = 2y\ K_3PO_4 + K_2Ti_xO_{(2x+1)}\ (\text{or } x\ TiO_2).$$

The system K_2TiO_3-$K_4P_2O_7$ was only investigated in the range of 0-7% and of 82,5-100% $K_4P_2O_7$. The domain of 7-82,5% $K_4P_2O_7$ cannot be examined by visual-polythermal methods due to the higher temperatures of the melt. The system K_2TiO_3-$K_4P_2O_7$-TiO_2

Card 1/2

78-2-25/43

S. g. da, N P

AUTHORS: Belyayev, I. N., Sigida, N. P.

TITLE: V. The Interaction of Sodium Titanate and Sodium Silicate in the Crystallization From the Melt (Vzaimodeystviye titanatov i silikatov natriya pri kristallizatsii iz rasplavov) Investigation of the Ternary System Na_2SiO_3-Na_2TiO_3-TiO_2 (Issledovaniye troynoy sistemy Na_2SiO_3-Na_2TiO_3-TiO_2)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol.3, Nr 2, pp.433-439 (USSR)

ABSTRACT: The surface of the primary crystallization of the ternary system Na_2O-TiO_2-SiO_2 was investigated. It was shown that in the system Na_2TiO_3-Na_2SiO_3 the third and fourth phase represent acid sodium-titanate. It became evident that the phases α and β in the systems Na_2TiO_3-Na_2SiO_3 are titanatosilicates and one and the same compound. Their composition is as follows:

α - 13 Na_2O · 13 TiO_2 · SiO_2 with a melting point of 982°C.

β - 13 Na_2O · 13 SiO_2 · TiO_2 with a melting point of 975°C.

Card 1/2

78-2-25/43

...Interaction of Sodium Titanate and Sodium Silicate in the Crystallization From the Melt. Investigation of the Ternary System Na_2SiO_3-Na_2TiO_3-TiO_2

The titanosilicate of sodium was also determined. The obtained results show that the system Na_2TiO_3-Na_2SiO_3 in the ternary system Na_2O-TiO_2-SiO_2 is unstable and cannot be considered to be a binary system. It is shown that the ternary system of the type AX-AY, in which the third phase is no compound of the components, may predominantly be met in systems of silicates and titanates, pyrophosphates and titanates, molybdates and titanates, vanadates and titanates, i.e. in systems whose salts are acid-formers and show a tendency to polymerization. There are 4 figures, 3 tables, and 7 references, 5 of which are Slavic.

SUBMITTED: April 13, 1957

AVAILABLE: Library of Congress.

Card 2/2

AUTHORS: Belyayev, I. N., Sigida, N. P. 73-2-26/43

TITLE: VI. The Interaction of Titanates and Pyrophosphates of Potassium and Lithium in the Crystallization From the Melt (VI. Vzaimodeystviye titanatov i pirofosfatov kaliya i litiya pri kristallizatsii iz rasplavov)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 2, pp. 440-446 (USSR)

ABSTRACT: The present paper reports on the investigations concerning the systems Li, K/TiO_3, P_2O_7.

The system Li_2TiO_3-$K_4P_2O_7$ was investigated as far as 36% Li_2TiO_3. In this concentration range three phases were determined: phases of the components and potassium orthophosphate. The system K_2TiO_3-$Li_4P_2O_7$ was investigated from 0 - 24% and 80 - 100% $Li_4P_2O_7$. In this concentration range phases of K_2TiO_3, potassium orthophosphate, Li_2TiO_3 and lithium titanate were determined beside the phases of the components. In the system with the components K_2TiO_3, Li_2TiO_3, $K_4P_2O_7$, $Li_4P_2O_7$ five phases were determined:

Card 1/2

VI. The Interaction of Titanates and Pyrophosphates of Potassium and Lithium in the Crystallization From the Melt 73-2-26/43

potassium orthophosphate which forms as a result of the influence of the pyrophosphate and titanate of potassium, three phases L, M and N which develop by the influence of the titanate and pyrophosphate of lithium, and lithium--titanate-phosphate without an exactly determined composition. The occurrence of the potassium-orthophosphate phase as well as of the lithium-titanate-phosphate phase shows that this system is unstable and does not possess any eutectic points at the liquidus surface. There are 2 figures, 2 tables, and 6 references, all of which are Slavic.

SUBMITTED: April 29, 1957

AVAILABLE: Library of Congress

Card 2/2

SIGIDA, N. P., Candidate Chem Sci (diss) -- "Physicochemical investigation of the interactions of the titanates of the alkali metals with other salts in melts and in the solid state". Rostov na Donu, 1959. 18 pp (Rostov State U, Chair of General and Inorganic Chem), 150 copies (KL, No 24, 1959, 129)

OTERIN, D., inzh. (Donetsk); SIGIDIYENKO, V., inzh. (Donetsk); SAMOKHVALOV, O. (Gorlovka)

Readers continue the discussion. Sov. profsoiuzy 18 no.4: 35 F '62. (MIRA 15:3)

1. Predsedatel' soveta muzeya istorii shakhty "Kochegarka", g. Gorlovka.

(Industrial museums)

SIGIDIN, Ya. A.

The analgesic preparation promedol. Sovet. med. 17 no.10:25-27 Oct 1953. (CIML 25:5)

1. Of the Faculty Therapeutic Clinic (Director -- Prof. A.I. Nesterov, Active Member of the Academy of Medical Sciences USSR), Second Moscow Medical Institute imeni I.V. Stalin.

SIGIDIN, YA. A.

Dynamics of some indexes of water metabolism in patients with rheumatic and infectious nonspecific polyarthritis during treatment with cortisone and corticotropin. Ya. A. Sigidin (2nd I. V. Stalin Med. Inst., Moscow). *Terap. Arkh.* 26, No. 4, 33–7(1954).—Most patients with rheumatic and infectious polyarthritis display low elimination of fluids and chlorides, increased tissue hydrophilia, and high content of macrodispersed protein fraction in the blood. Cortisone and corticotropin treatment raises chloride elimination, raises H_2O elimination, reduces tissue hydrophilia, and increases the microdispersed protein fractions in the blood along with increased level of perspiration. The index of H_2O turnover corresponds precisely in its changes with the beginning of clinical improvement. G. M. K.

— Faculty Therapy Clinic,

SIGIDIN, Ya. A.

Med

The dynamics of capillary permeability in rheumatism—as infectious nonspecific polyarthritis studied with the aid of radioactive sodium-24. Ya. A. Sigidin (I. V. Stalin Moscow Med. Inst.). *Klin. Med.* 34, No. 11, 22-30(1956). —The use of the Na^{24} method in the study of capillary permeability in rheumatism and infectious arthritis permits the differentiation among 3 degrees of disturbed permeability: (1) the rate of Na^{24} absorption within normal limits (slight disturbance), (2) increased rate of absorption (pronounced disturbance), and (3) delayed rate (max. disturbance). A. S. Mirkin

MESTEROV, A.I., prof.; LEVLEVA, L.V., kand.med.nauk; SIGIDIN, Ya.A. (Moskva)

So-called collagen diseases. Terap.arkh. 29 no.2:3-17 '57.
(MIRA 11:1)

1. Deystvitel'nyy chlen AMN SSSR (for Nesterov)
(COLLAGEN DISEASES,
review (Rus))

IYEVLEVA, L.V., kand. med. nauk; SIGIDIN, Ya.A.

Some clinical variants of the so-called collagen diseases. Terap. arkh. 30 no.11:16-23 N '58. (MIRA 12:7)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystv. chlen AMN SSSR prof. A.I. Nesterov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.
(COLLAGEN DISEASES)

BARANOVICH, M.K., dotsent; SIGIDIN, Ya.A.; LYSOCHENKO, V.A.

Hemorrhagic thrombocytenia as a manifestation of hyposplenism. Probl.gemat. i perel.krovi 4 no.3:32-36 Mr '59. (MIRA 12:6)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystvitel'nyy chlen AMN SSSR prof.A.I.Nesterov) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

(SPLEEN, dis.
hyposplenism, manifest., hemorrh. thrombopenia (Rus))
(PURPURA, THROMBOPENIC, etiol. & pathogen.
hyposplenism (Rus))

BARANOVICH, M.K., dots.; SIGIDIN, Ya.A.

Hypertensive crises of the lesser circulation. Sovet. med. 23 no.2: 28-34 F '59. (MIRA 12:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(HYPERTENSION
pulm., etiol. & ther. (Rus))

SIGIDIN, Ya. A., Canc Med Sci, "Capillary permeability in ~~the presence of~~ rheumatism and infectious nonspecific polyarthritis, according to data of methods of radioactive indication." Moscow, 1960. (Acad Med Sci USSR). (KL, 3-61, 235).

SIGIDIN, Ya., nauchnyy sotrudnik

Rheumatism and its prevention. Mast.ugl. 9 no.10:30-31 O'60.
(MIRA 13:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut revmatizma.
(COAL MINERS--DISEASES AND HYGIENE) (RHEUMATISM)

SIGIDIN, Ya.A.

Medullary hemopoiesis in collagenoses. Terap. arkh. 32 no. 5:39-47 My '60. (MIRA 14:1)
(COLLAGEN DISEASES) (HEMATOPOIETIC SYSTEM)

BIBIKOVA, T.I.; SIGIDIN, Ya.A.; MIKHAYLOVA, I.N.; KULESHOVA, Z.S.; MILAYEVA, L.V.

Hormone and drug therapy in rheumatic carditis. Vop.revm. 1 no.2:33-39 Ap-Je '61. (MIRA 16:4)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) Ministerstva zdravookhraneniya RSFSR.
(RHEUMATIC HEART DISEASE) (HORMONE THERAPY)
(CHEMOTHERAPY)

SIGIDIN, Ya.A., kand.med.nauk

Radiological study of capillary permeability in rheumatic fever and infectious arthritis. Vop.revm. 1 no.4:42-45 O-D '61. (MIRA 16:3)

1. Iz klinicheskogo otdeleniya Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) Ministerstva zdravookhraneniya RSFSR.

(CAPILLARIES--PERMEABILITY) (RHEUMATIC FEVER)
(ARTHRITIS, RHEUMATOID)

BIBIKOVA, T.I., kand.med.nauk; ZIGIDIN, Ya.A.; KULESHOVA, Z.S.; MILAYEVA, L.V.

Use of prednisolone in the combined treatment of rheumatic fever. Terap.arkh. 33 no.2:11-18 F '61. (MIRA 14:3)

1. Iz klinicheskogo otdela Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) Ministerstva zdravookhraneniya RSFSR.

(PREGNADIENEDIONE) (RHEUMATIC FEVER)

SIGIDIN, Ya.A. (Moskva)

Nature of hemorrhagic thrombocythemias (on the article of I.A. Kassirskii, "Controversial problems in the theory of osteo- and myelosclerotic leukemias." Probl.gemat.i perel.krovi no.3: 36-38 '62. (MIRA 15:3)
(BLOOD PLATELETS--DISEASES) (LEUKEMIA)
(KASSIRSKII, I.A.)

ROZEN, V.B., kand. biolog. nauk; SIGIDIN, Ya.A., kand. med. nauk; SACHKOV, V.I., kand. med. nauk

Review of the book "Rheumatological problems in the Baltic region." Vop. revm. 2 no.2:86-88 Ap-Je'62 (MIRA 17:3)

SIGIDIN, Ya.A., kand. med. nauk; MIKHAYLOVA, I.N., kand. med. nauk (Moskva)

Review of the book "Collagen diseases and rheumatic fever"; "Trudy" of the First Moscow Medical Institute vol.13, 1962. Vop. revm. 2 no.4:90-92 O-D'62 (MIRA 17:4)

BIBIKOVA, T.I., kand.med.nauk; BIGIDIN, Ya.A., kand.med.nauk

Modern aspects of the treatment of rheumatic carditis. Vop.revm. 2 no.3:54-61 Jl-S '62. (MIRA 16:2)

1. Izklinicheskogo otdela Nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) AMN SSSR.
(RHEUMATIC HEART DISEASE)

SIGIDIN, Ya.A., kand.med.nauk

"Rheumatism will be conquered" by I.A.Kassirskii. Reviewed by IA.A.Sigidin. Zdorov'e 8 no.9:29 S '62. (MIRA 15:9)
(RHEUMATIC FEVER)

SIGIDIN, Ya. A., kand. med. nauk

Elements in common between the collagen and hematological diseases. Terap. arkh. 34 no.4:11-16 '62. (MIRA 15:6)

1. Iz klinicheskogo otdela Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A. I. Nesterov) AMN SSSR.

(BLOOD--DISEASES) (COLLAGEN DISEASES)

SIGIDIN, Ya.A., kand.med. nauk (Moskva)

Rheumatic fever. Med. sestra 22 no.11:33-38 N'63 (MIRA 16:12)

SIGIDIN, Ya.A., kand.med. nauk

Eosinophilic collagenosis. Ter. arkh. 35 no.4:59-64 Ap'63
(MIRA 17:1)

1. Iz klinicheskogo otdela Instituta revmatizma (dir. - deyst-vitel'nyy chlen AMN SSSR prof. A.I. Nesterov) AMN SSSR.

TAREYEV, Ye.M., prof., [illegible] APUKHTIN, V.N., kand. med. nauk, red.; ASTAPENKO, M.G., prof., red.; SIGIDIN, Ya.A., kand. med. nauk, red.; STRUKOV, A.I., prof., red.; CHURILOVA, A.I., red.

[Current problems of rheumatology] Sovremennye problemy revmatologii. Moskva, Meditsina, 1965. [illegible] p. (MIRA 18:12)

1. Akademiya meditsinskikh nauk SSSR, Moskva. 2. Deystvitel'nyy chlen AMN SSSR (for Tareyev).

HARALAMBIE,T., tehnician; CRACIUN,Ion, economist; MARCHEAN, Ioan, ing.; JURCA, Nicanor, ing.; SIGISMUND,S.; BARBALATA, Stanciu; SIRIOPOL,Telemah; NEAGU, Ion,ing.

Prefabricated materials for hotbeds; a veterinary laboratory in Constanta; the new club house in the city of Victoria; what the planners of Suceava are proposing; constructions in use in Galati. Constr Buc 16 no.735:1 8 F '64.

1. Din subredactia voluntara de la Galati (for Barbalata, Siriopol). 2. Directia de sistematizare, arhitectura si proiectare a constructiilor, Oltenia (for Neagu).

DOBRYNIN, V.D.; SIGITOVA, Ye.M.

Finds of Cambrian trilobites in the Dzhezkazgan-Ulutau region.
Dokl. AN SSSR 139 no.6:1423-1424 Ag '61. (MIRA 14:8)

1. Predstavleno akademikom D.V. Nalivkinym.
(Karaganda Province--Geology, Stratigraphic)

DOBRYNIN, V.M.; SIGITOVA, Ye.M.

New data on the stratigraphy of Cambrian and Lower Ordovician sediments in the southern Ulu-Tau. Mat.po geol.i pol.iskop. TSentr.Kazakh. no.2:3-10 '62. (MIRA 15:12)
(Ulu-Tau--Geology, Stratigraphic)

SIGLA, A.Ye., kand.med.nauk (Tashkent)

Hydroaeroionization as a hygienic factor. Vrach.delo no.1:91 '60. (MIRA 13:6)

1. Uzbekskiy nauchno-issledovatel'skiy institut kurortologii i fizioterapii.
(AIR, IONIZED)

S/035/62/000/010/110/128
A001/A101

AUTHOR: Sigl, Rudolf

TITLE: On observations and adjustment of a small network measured with a tellurometer

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 35, abstract 10G185 ("Compte rendu 1-er sympos. internat. calculs geod. Cracovie, 1959", Cracow, 1961, 221 - 230, German; French summary)

TEXT: Information is given on the operational principle and design of the tellurometer. Measurements are described which were carried out in the Munich base network by the 1 Department of the German Geodetic Scientific Research Institute with a tellurometer in 1958. Results of measurements and adjustment are presented (see RZhAstr, 1960, no. 11, 11839; 1961, 10218). There are 10 references.

M. R.

[Abstracter's note: Complete translation]

Card 1/1

KANAKOV, G.V. (Gor'kiy); SIGLE, R.G. (Gor'kiy)

Study of the results of deep sounding in designing pile foundations of buildings. Osn. fund.i mekh.grun. 6 no.1:10-11 '64. (MIRA 17:2)

SIGMOND, GY.; [redacted]

Research on the reduction of bauxite from Halimba; determination of a balanced molecular ration. p. 407. KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet) Budapest. Vol. 9, no. 9, Sept. 1954.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, no. 6, June 1956

SIGMOND, Gyorgy, dr.; FEHERVARY, Akos

Applying the correlation calculus in [redacted] alumina production. Koh lap 93 no.3:97-109 Mr '60.

SIGMOND, Gyorgy, dr.; SIKLOSI, Peter; KAPTAY, Gyorgy

Correlation computation by electroic calculating machines at alumina factories1.Koh lap 95 no.3:97-102 Mr '62.

SIGMOND, Gyorgy, dr.; BOGRADI, Endre

Exploration of bauxite from Halimba; de ermination of the equilibrium mole rate. Koh lap 9 no. 9: 407-410 S '54.

SIGMUND J. ; DOLEZAL, F.

SIGMUND, J. ; DOLEZAL, F. Rotary separators. p. 106

Vol. 4, no. 3, Mar. 1956
STROJIRENSKA VYROBA
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

S/262/62/000/006/013/021
I007/I207

AUTHOR: Sigmund, Karel.

TITLE: Starter-gear disengaging device.

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk.42. Silovye ustanovki, no.6, 1962, 73, abstract 426348. (Chekhosl. pat., kl.46c5, 14, no.97502, 15.12.60).

TEXT: A patent has been granted for a device for disengaging the starter gear from the flywheel ring-gear. A helical spring, mounted on the starter spindle, presses the starter gear to the flywheel ring-gear, thus causing their engagement. In the disengaged state, the starter gear is retained by the fork of the lever, remotely controlled by the driver.

[Abstractor's note: Complete translation.]

Card 1/1

L 07533-67 EWT(d)/EWT(m)/EWP(f) FIN
ACC NR: AP6005506 (A) SOURCE CODE: CZ/0078/66/000/001/0023/0023

35
B

INVENTOR: Sigmund, Karel (Kromeriz)

ORG: none

TITLE: [Electrical starting device for an internal combustion engine] CZ Pat. No. PV 1175-66

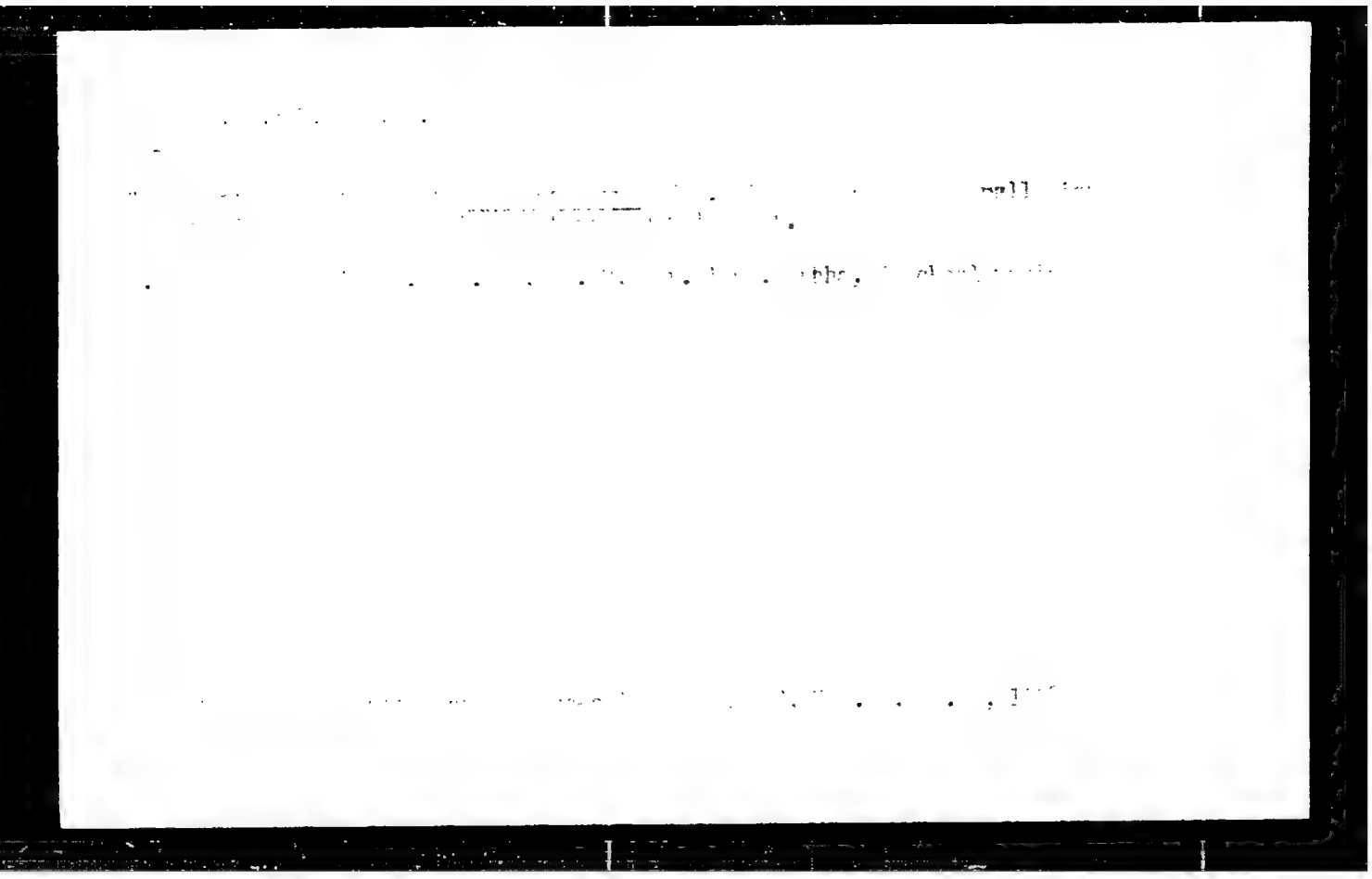
SOURCE: Vynalezy, no. 1, 1966, 23

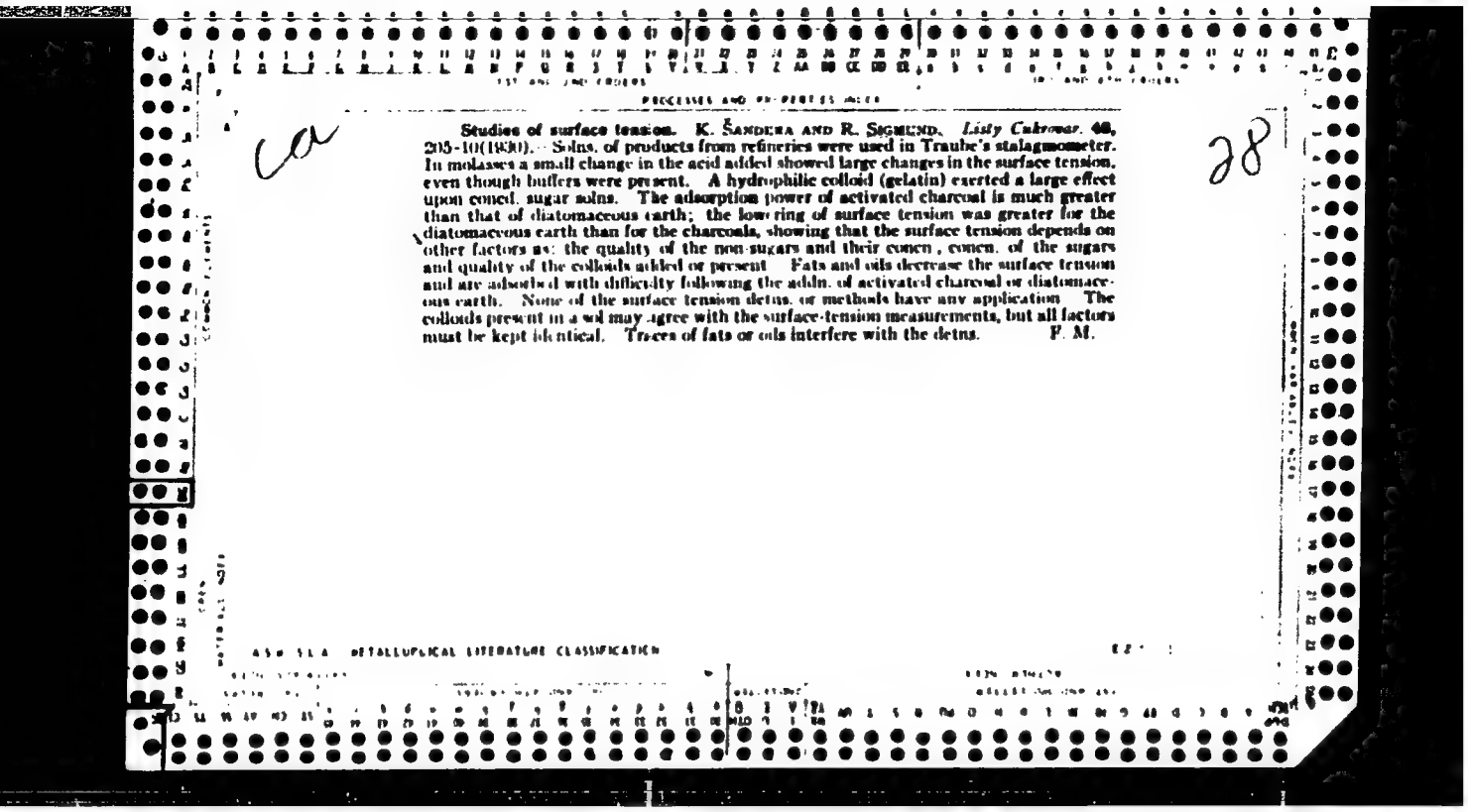
TOPIC TAGS: internal combustion engine, ignition engine ignition system

ABSTRACT: An electrical starting device for an internal combustion engine is described which is fitted with at least two electromagnetically controlled starters operating on the common gear wheel of the flywheel of the motor. The distinguishing feature of the device is that through the push botton connected to the electric current source and the terminal of the selecting switch, for example, of a triple-throw switch, the control circuit ofone or more starters is closed, for example, two starters, where the control contacts of the first starter are connected to the control circuit of the second starter through the contacts of the selecting switch. At the same time the control contacts of the second starter are connected to the contactors of the main current circuit of both starters.

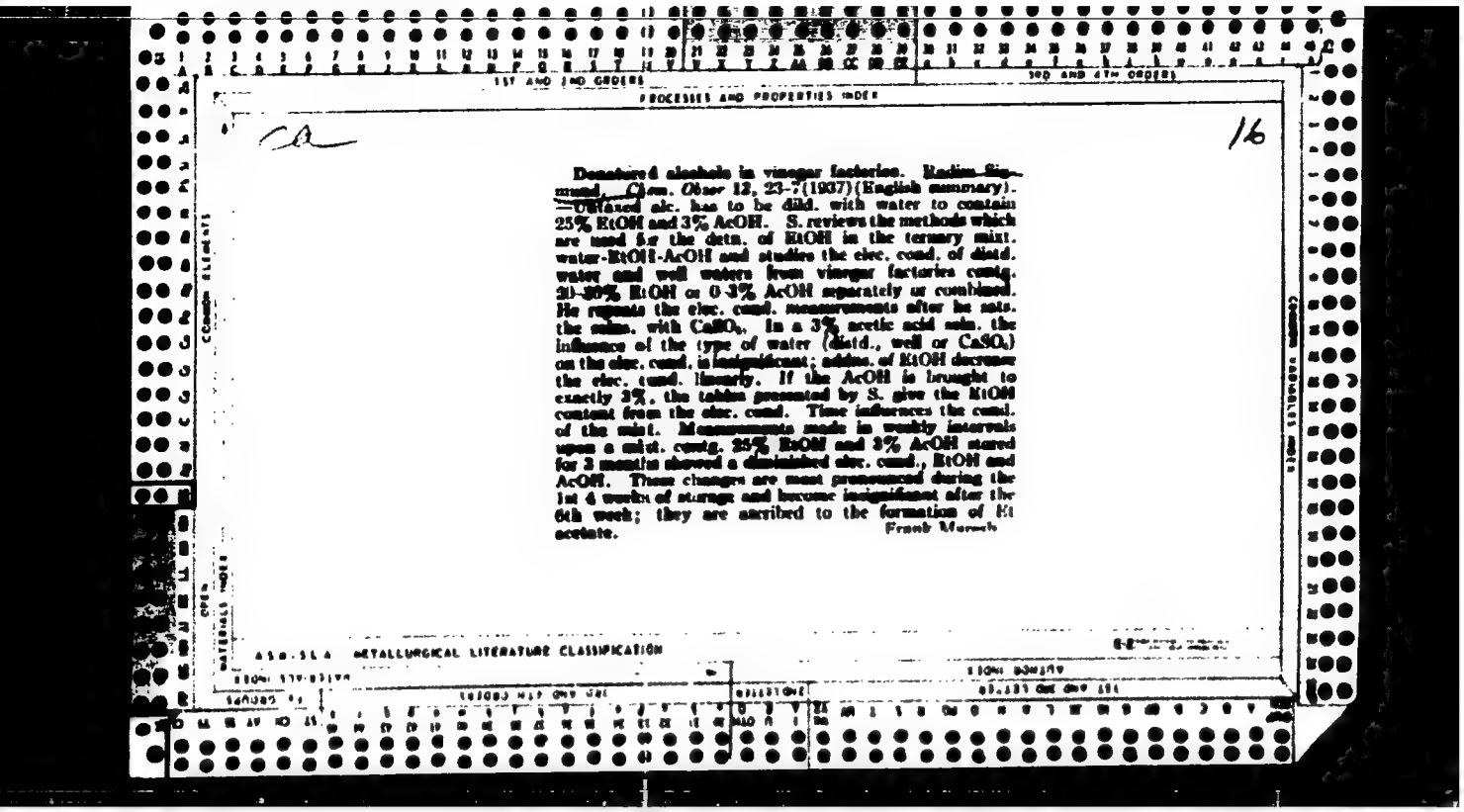
SUB CODE: 21,09/ SUBM DATE: 20Feb65

Card 1/1 gl





Studies of surface tension. K. Šandera and R. Sigmund. *Listy Cukrovar.* 48, 203-10(1930).—Solns. of products from refineries were used in Traube's stalagmometer. In molasses a small change in the acid added showed large changes in the surface tension, even though buffers were present. A hydrophilic colloid (gelatin) exerted a large effect upon concd. sugar solns. The adsorption power of activated charcoal is much greater than that of diatomaceous earth; the lowering of surface tension was greater for the diatomaceous earth than for the charcoals, showing that the surface tension depends on other factors as: the quality of the non-sugars and their concn., concn. of the sugars and quality of the colloids added or present. Fats and oils decrease the surface tension and are adsorbed with difficulty following the addn. of activated charcoal or diatomaceous earth. None of the surface tension detns. or methods have any application. The colloids present in a sol may agree with the surface-tension measurements, but all factors must be kept identical. Traces of fats or oils interfere with the detns. F. M.



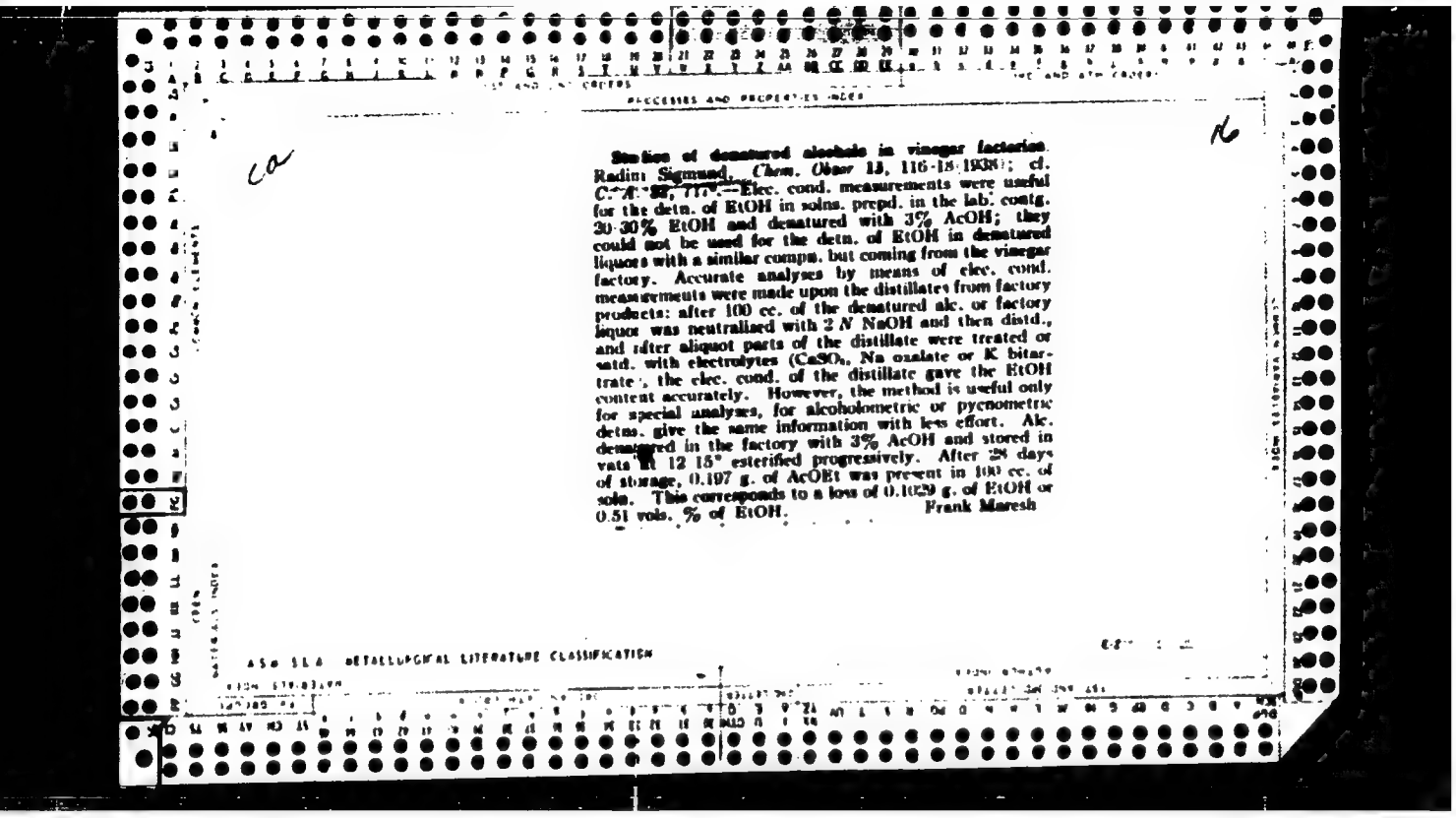
PROCESSES AND PROPERTIES INDEX

16

Denatured alcohols in vinegar factories. Rudim Sigmund. *Chem. Obzor* 12, 23-7(1937)(English summary).—Obtained alc. has to be dild. with water to contain 25% EtOH and 3% AcOH. S. reviews the methods which are used for the detn. of EtOH in the ternary mixt. water-EtOH-AcOH and studies the elec. cond. of distd. water and well waters from vinegar factories contg. 20-30% EtOH or 0-3% AcOH separately or combined. He repeats the elec. cond. measurements after he sats. the solns. with $CaSO_4$. In a 3% acetic acid soln. the influence of the type of water (distd., well or $CaSO_4$) on the elec. cond. is insignificant; addns. of EtOH decrease the elec. cond. linearly. If the AcOH is brought to exactly 3%, the tables presented by S. give the EtOH content from the elec. cond. Time influences the cond. of the mixt. Measurements made in weekly intervals upon a mixt. contg. 25% EtOH and 3% AcOH stored for 3 months showed a diminished elec. cond., EtOH and AcOH. These changes are most pronounced during the 1st 4 weeks of storage and become insignificant after the 6th week; they are ascribed to the formation of Et acetate.

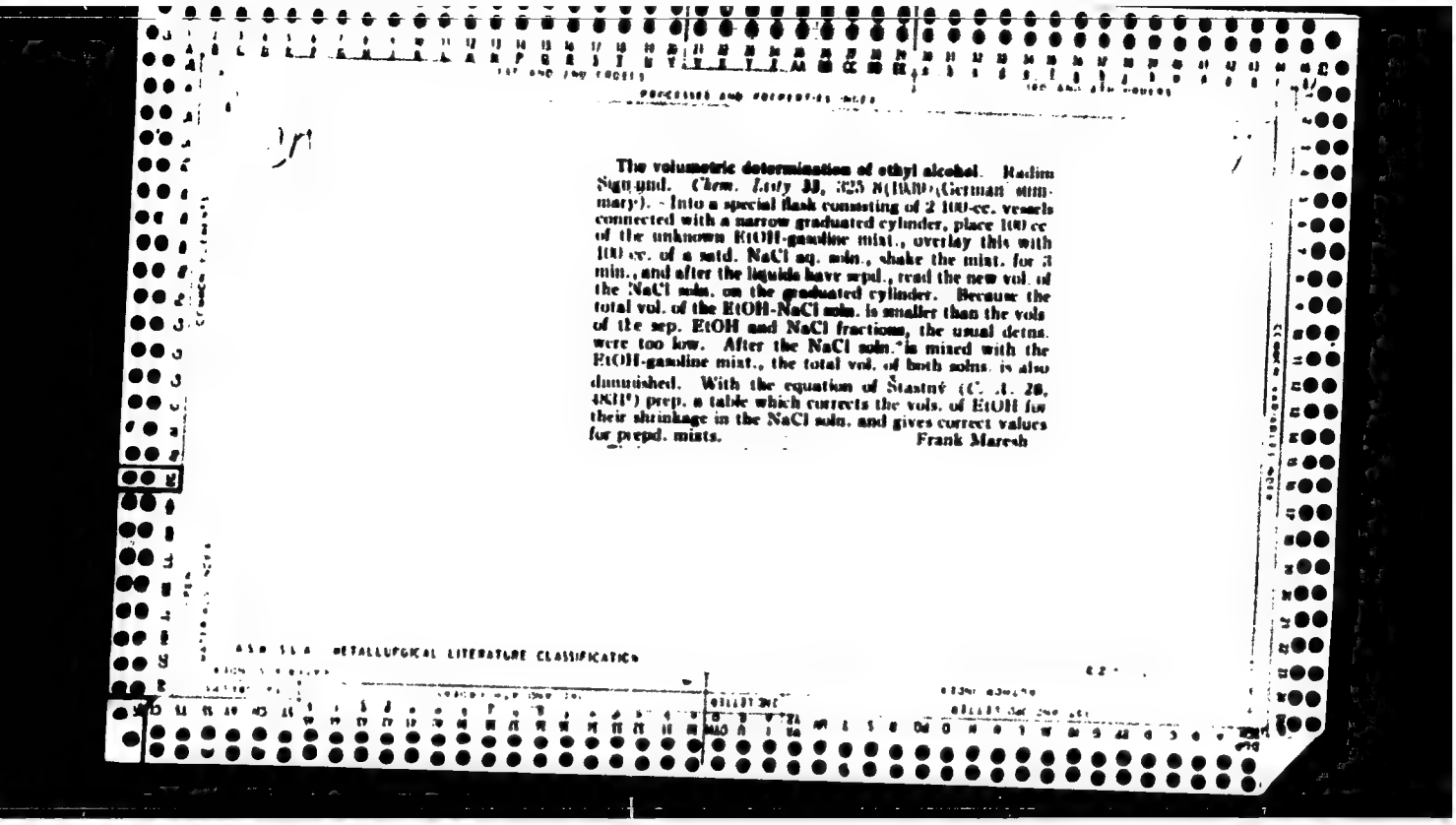
Frank Marsch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



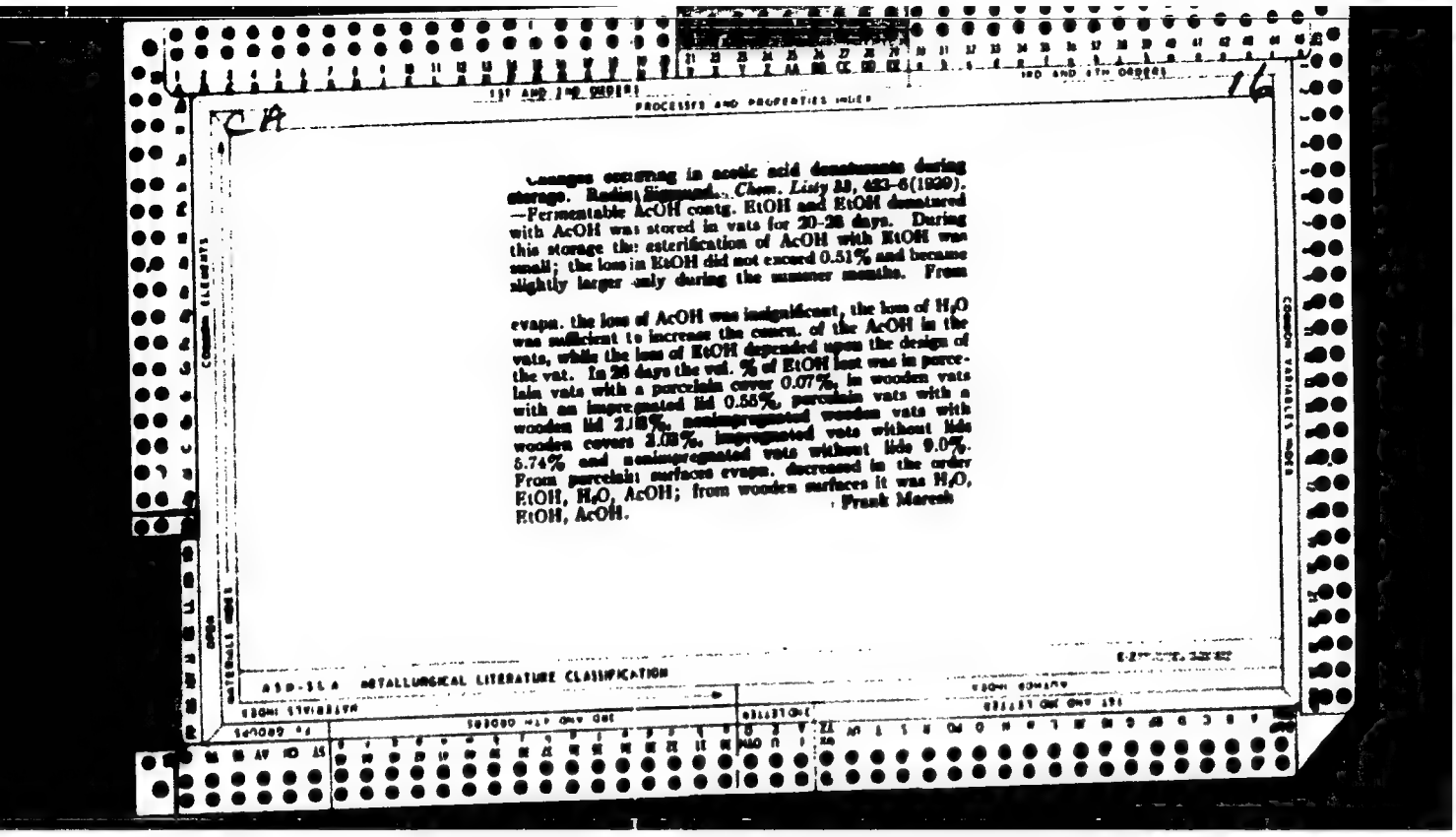
Station of denatured alcohols in vinegar factories. Radim Sigmund. *Chem. Obzor* **13**, 116-18 (1938); cf. *C. A.* **32**, 7170.—Elec. cond. measurements were useful for the detn. of EtOH in solns. prepd. in the lab. contg. 20-30% EtOH and denatured with 3% AcOH; they could not be used for the detn. of EtOH in denatured liquors with a similar compn. but coming from the vinegar factory. Accurate analyses by means of elec. cond. measurements were made upon the distillates from factory products: after 100 cc. of the denatured alc. or factory liquor was neutralized with 2 *N* NaOH and then distd., and after aliquot parts of the distillate were treated or satd. with electrolytes ($CaSO_4$, Na oxalate or K bitartrate), the elec. cond. of the distillate gave the EtOH content accurately. However, the method is useful only for special analyses, for alcobolometric or pycnometric detns. give the same information with less effort. Alc. denatured in the factory with 3% AcOH and stored in vats at 12-15° esterified progressively. After 28 days of storage, 0.197 g. of AcOEt was present in 100 cc. of soln. This corresponds to a loss of 0.1029 g. of EtOH or 0.51 vols. % of EtOH.

Frank Maresh

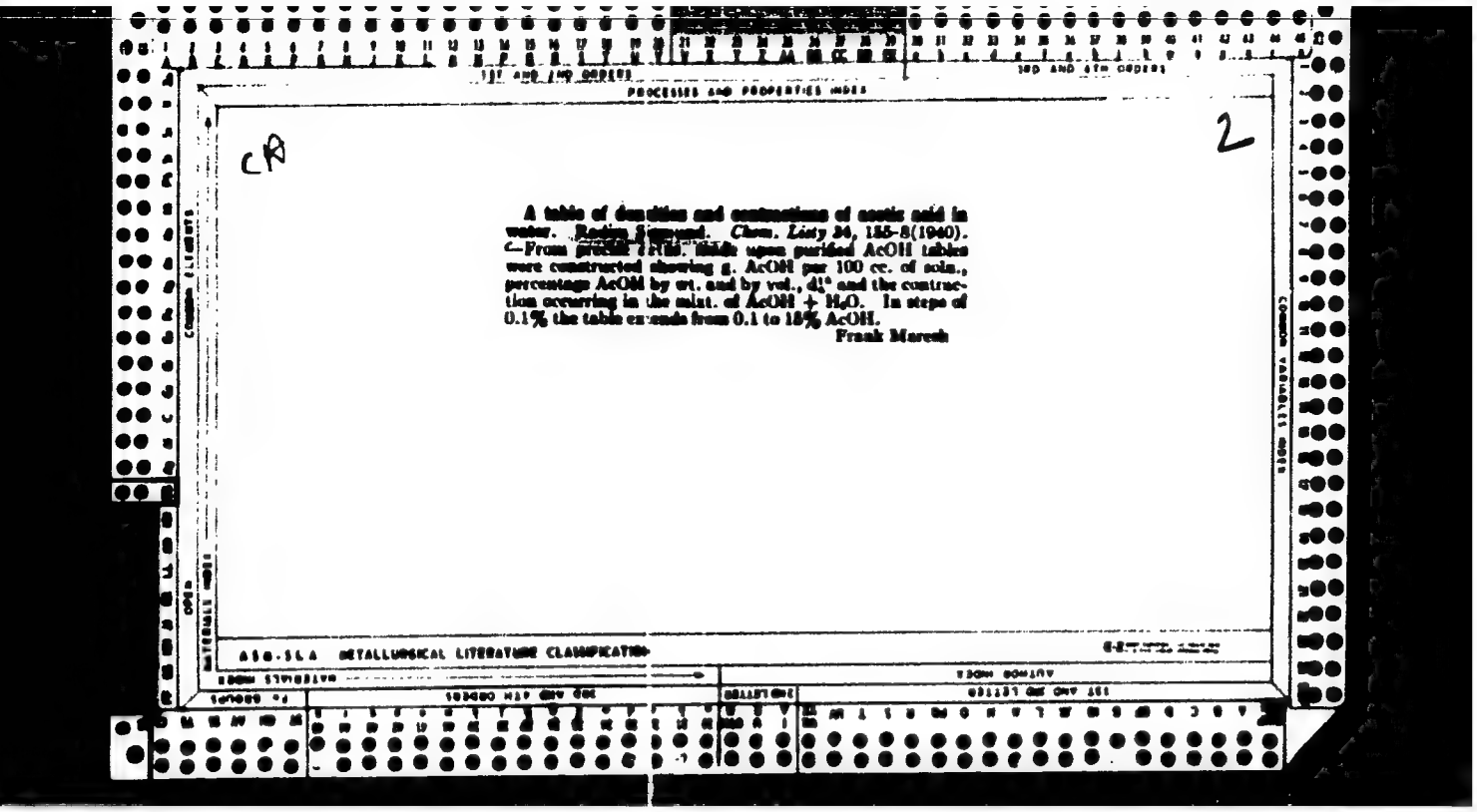


The volumetric determination of ethyl alcohol. Radim Sigmund. *Chem. Listy* **33**, 325 8(1939)(German summary). - Into a special flask consisting of 2 100-cc. vessels connected with a narrow graduated cylinder, place 100 cc of the unknown EtOH-gasoline mixt., overlay this with 100 cc. of a satd. NaCl aq. soln., shake the mixt. for 3 min., and after the liquids have sepd., read the new vol. of the NaCl soln. on the graduated cylinder. Because the total vol. of the EtOH-NaCl soln. is smaller than the vols of the sep. EtOH and NaCl fractions, the usual detns. were too low. After the NaCl soln. is mixed with the EtOH-gasoline mixt., the total vol. of both solns. is also diminished. With the equation of Šastný (C. A. 28, 4811[9]) prep. a table which corrects the vols. of EtOH for their shrinkage in the NaCl soln. and gives correct values for prepd. mixts.

Frank Maresh



changes occurring in acetic acid denaturants during storage. Rasin, Stanislaw. *Chem. Listy* **33**, 423–6(1939). —Fermentable AcOH contg. EtOH and EtOH denatured with AcOH was stored in vats for 20–26 days. During this storage the esterification of AcOH with EtOH was small; the loss in EtOH did not exceed 0.51% and became slightly larger only during the summer months. From evaps. the loss of AcOH was insignificant, the loss of H_2O was sufficient to increase the concn. of the AcOH in the vats, while the loss of EtOH depended upon the design of the vat. In 26 days the vol. % of EtOH lost was in porcelain vats with a porcelain cover 0.07%, in wooden vats with an impregnated lid 0.55%, porcelain vats with a wooden lid 2.18%, nonimpregnated wooden vats with wooden covers 3.08%, impregnated vats without lids 5.74% and nonimpregnated vats without lids 9.0%. From porcelain surfaces evaps. decreased in the order EtOH, H_2O, AcOH; from wooden surfaces it was H_2O, EtOH, AcOH. Frank Mareš

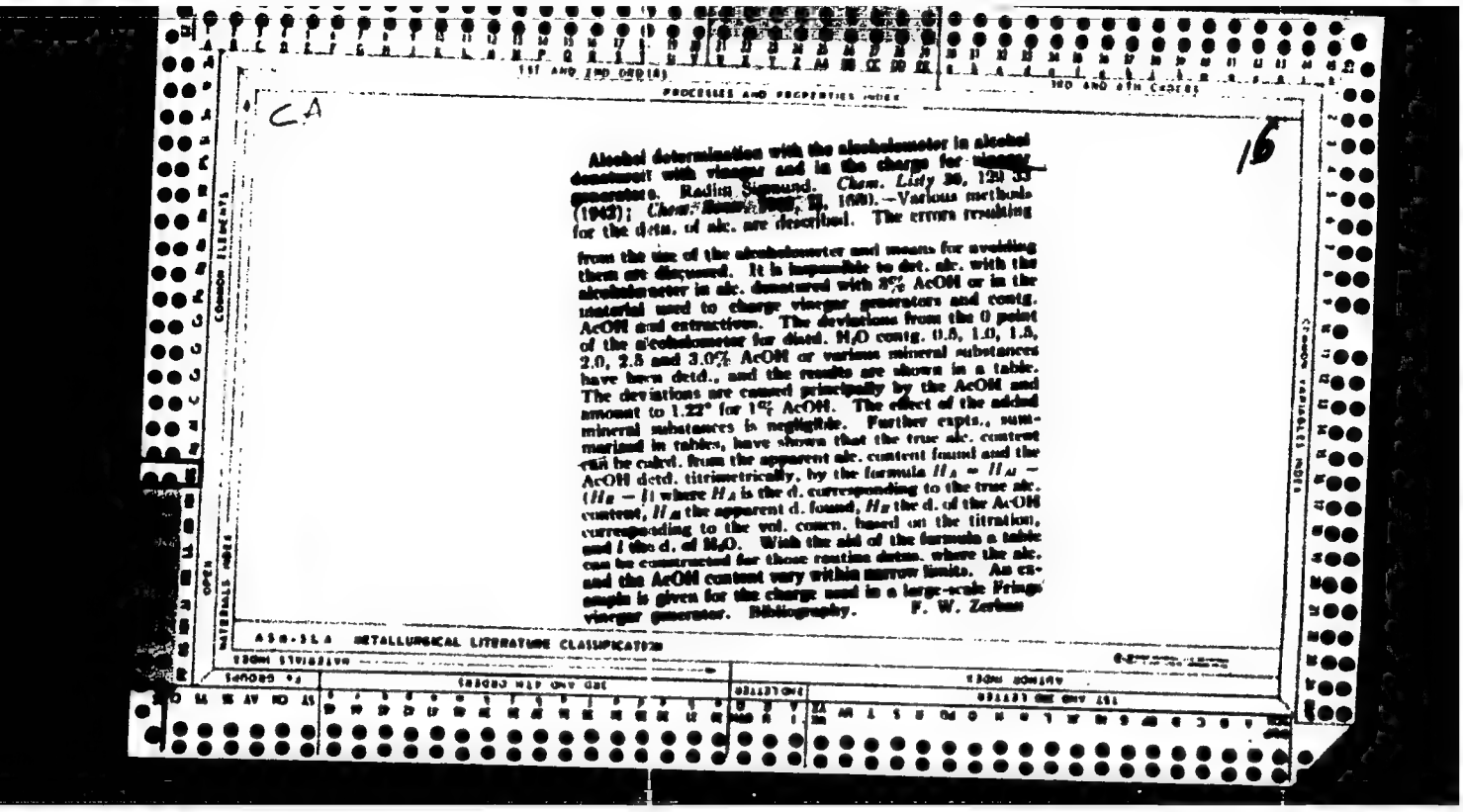


CR

2

A table of densities and contractions of acetic acid in water. Rodica Simonad. *Chem. Listy* 34, 185-8(1940). —From precise [illegible] data upon purified AcOH tables were constructed showing g. AcOH per 100 cc. of soln., percentage AcOH by wt. and by vol., d_4^{15} and the contraction occurring in the mixt. of AcOH + H_2O. In steps of 0.1% the table extends from 0.1 to 18% AcOH.
Frank Mareth

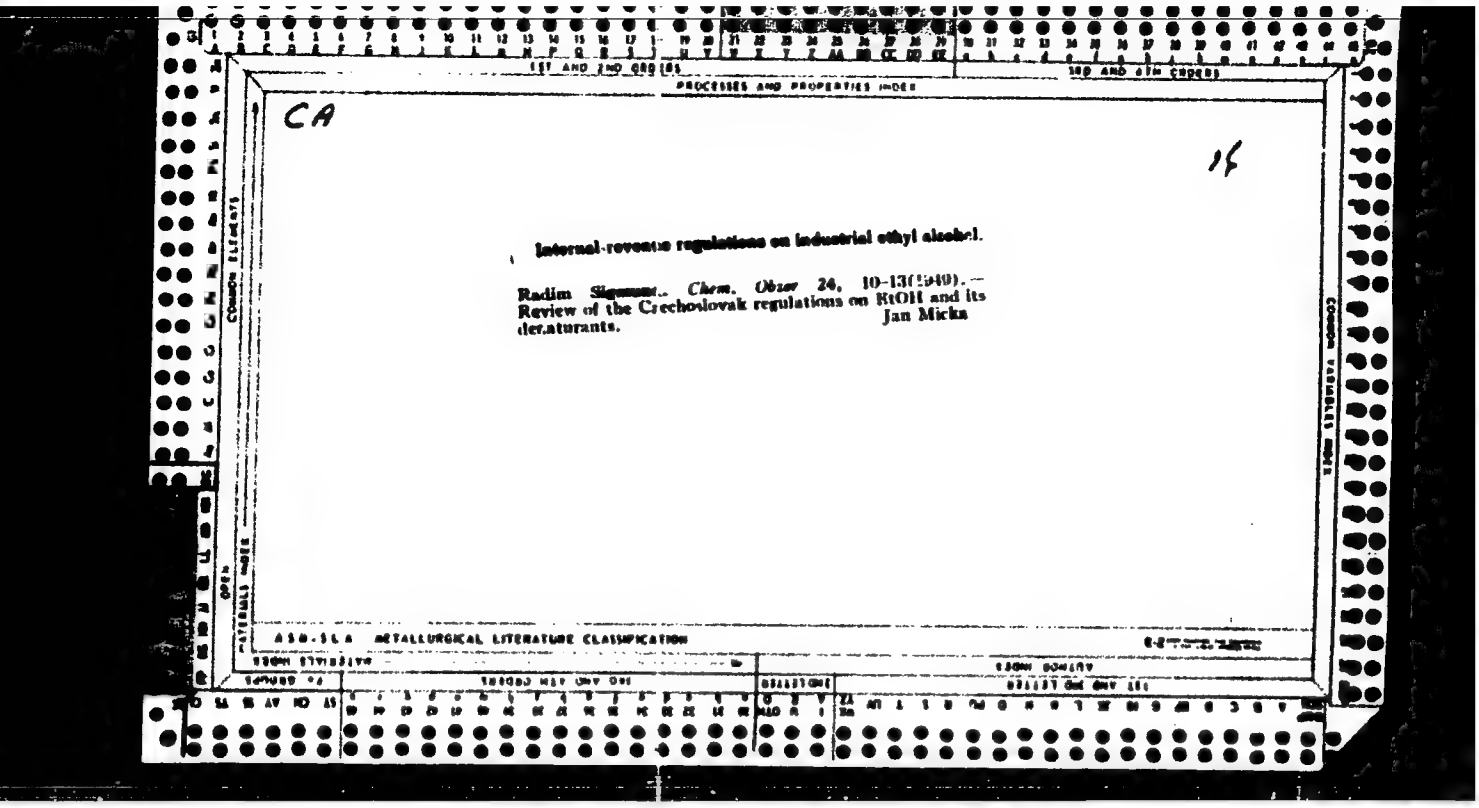
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

16

Alcohol determination with the alcoholometer in alcohol denatured with vinegar and in the charge for vinegar generators. Radim Sigmund. *Chem. Listy* 36, 129-33 (1942); *Chem. Zentr.*, 1942, II, 1668.—Various methods for the detn. of alc. are described. The errors resulting from the use of the alcoholometer and means for avoiding them are discussed. It is impossible to det. alc. with the alcoholometer in alc. denatured with 3% AcOH or in the material used to charge vinegar generators and contg. AcOH and extractives. The deviations from the 0 point of the alcoholometer for distd. H_2O contg. 0.5, 1.0, 1.5, 2.0, 2.5 and 3.0% AcOH or various mineral substances have been detd., and the results are shown in a table. The deviations are caused principally by the AcOH and amount to 1.22° for 1% AcOH. The effect of the added mineral substances is negligible. Further expts., summarized in tables, have shown that the true alc. content can be calcd. from the apparent alc. content found and the AcOH detd. titrimetrically, by the formula $H_A = H_B - (H_B - I)$ where H_A is the d. corresponding to the true alc. content, H_B the apparent d. found, H_B the d. of the AcOH corresponding to the vol. concn. found on the titration, and I the d. of H_2O. With the aid of the formula a table can be constructed for those routine detns. where the alc. and the AcOH content vary within narrow limits. An example is given for the charge used in a large-scale Fringe vinegar generator. Bibliography. F. W. Zerban



SIGMUND, R.

Regulations concerning controls of the production and distribution of achol. p. 84.

(Kvasny Prumysl. Vol. 3, no. 4, Apr. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

(9)

Cardiology

CZECHOSLOVAKIA

SOVA, J.; PAICHL, P.; VANEK, J.; POKORNY, M.; HULA, J.; JANEK, A.; CAJZL, L.; CEPELAK, V.; PETEROVA, E.; SIGMUND, R.; LAHN, V.; VOHNIK, S.; Clinic of Internal Diseases, Med. Fac., Charles Univ. (Klinika Chorob Vnitrnich Lek. Fak. KU), Plzen, Prednosta (Head) Prof Dr J. SOVA; Internal Department Local Institute of National Health, Factory Hospital (Interni Oddeleni MUNZ Zavodni Nemocnice Odborovcho Podniku) Skoda, Plzen, Head (Prednosta) Docent Dr M. POKORNY; Psychiatric Clinic Med. Fac. Charles University (Psychiatricka Klinika Lek. Fak. KU), Plzen, Head (Prednosta) Docent Dr M. E. VENCOVSKY; Sikl Pathological and Anatomical Institute Med. Fac. Charles University (Sikluv Patologickoanatomicky Ustav Lek. Fak. KU), Plzen, Head (Prednosta) Prof Dr J. VANEK; Group for the Development of Programming Methods (Skupina Rozvoje Programovacich Metod v Odborovem Podniku) Skoda, Plzen, Head (Vedouci) A. KATOLICKY; Chair of Mathematics, Electrotechnical Faculty College of Mechanical Engineering (Katedra Matematiky Elektrotechnicke Fakulty VSSE), Plzen, Head (Vedouci) Docent J. KLATIL; Central Biochemical Laboratory (Ustredni Biochemicke Laboratore) FN, Plzen, Head (Prednosta) Dr V. LAHN.

"Use of Digital Computers in the Evaluation of Pathogenesis, Diagnosis, and Prognosis of Myocardial Infarction."

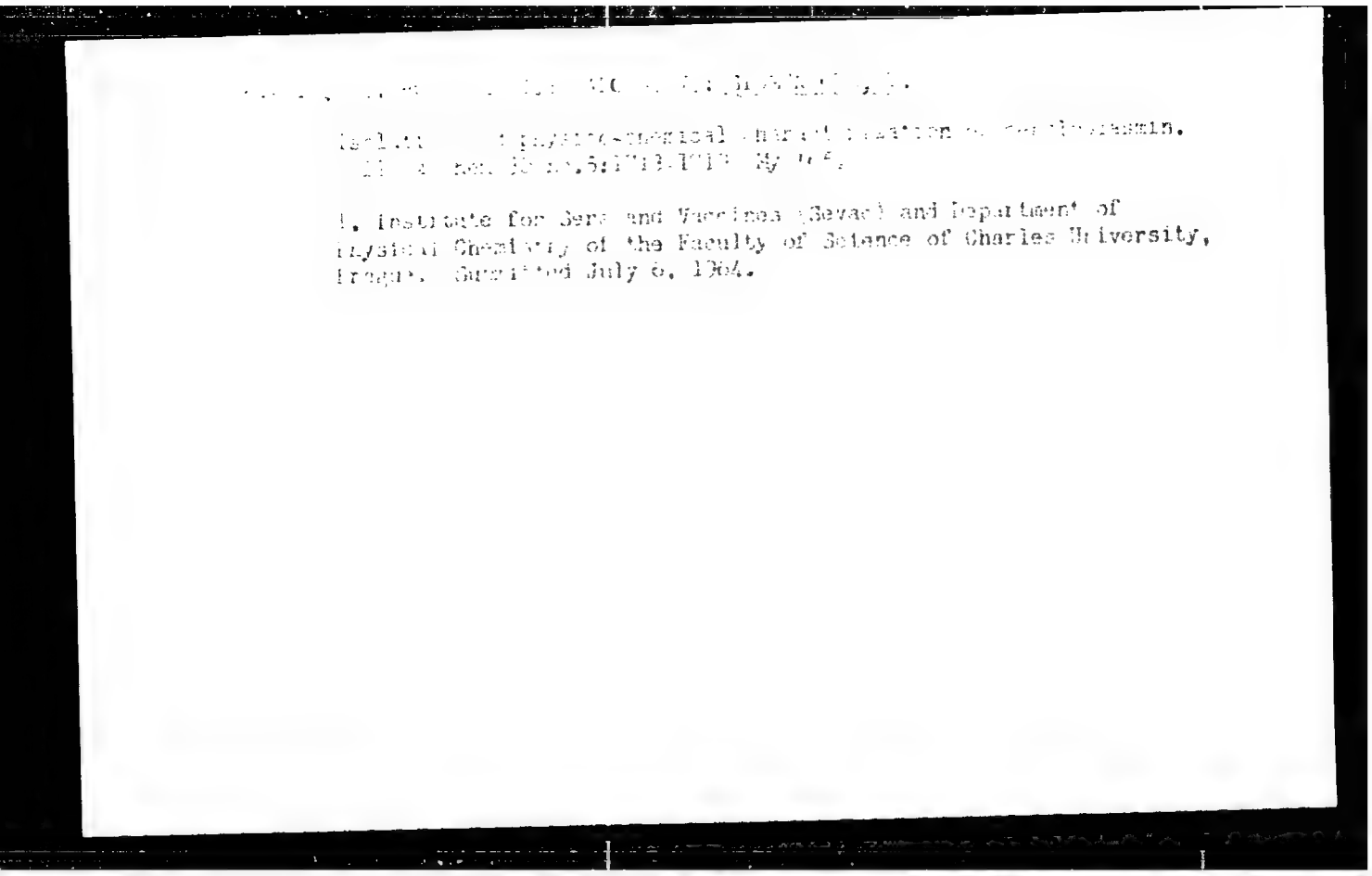
[illegible] No 2, pp 17 Jun 66, pp 683-

CZECHOSLOVAKIA

Prague, Casopis Lekaru Ceskych, Vol 105, No 24-25, 17 Jun 66, pp 683-684

Abstract: Computer evaluation of data obtained in the study of acute infarct of the myocardium is described. 280 indicators were used which allowed the use of 2200 characteristic codes. A 50 page code was prepared. All 280 indicators use numbers 1 to 9, and data on one patient are contained on 4 cards. The first problem is the determination of the frequency of correlation complexes of the most important signs of an acute myocardial infarct. 2 Western references

2/2



1. Institute for Sera and Vaccines (Sevac) and Department of Physical Chemistry of the Faculty of Science of Charles University, Prague. Submitted July 6, 1964.

DERYUGIN, I.A.; SIGNAL, M.A.

Dispersion of magnetic and electric permittivities of artificial dielectrics in the frequency band from 500 to 35,000 mc. Zhur. tekh. fiz. 31 no.1:100-108 Ja '61. (MIRA 14:2)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.
(Dielectrics)

DROBOT, A.T., tekhnik (Vol'nogorsk, Dnepropetrovskoy oblasti); RYBALKIN, I.A., inzh. (Vol'nogorsk, Dnepropetrovskoy oblasti); SIGNAYEVSKIY, A.A., inzh. (Vol'nogorsk, Dnepropetrovskoy oblasti).

Washing the convective heating surfaces of boilers with an alkali solution. Energetik 13 no.8:8-9 Ag '65. (MIRA 18:9)

SIGNUR, O. I.

"Immediate and Long-Range Results of the Treatment of Patients With Syphilis in the Postwar Years." Cand Med Sci, L'vov State Medical Inst, L'vov, 1954. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55—Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

SIGOV, S.A.; ABDULLAYEVA, U.A.

Kinetics and mechanism of methane conversion by carbon dioxide on a nickel catalyst. Uzb. khim. zhur. 9 no.5:63-68 '65.
(MIRA 18:12)

1. Institut khimii AN UzSSR. Submitted Sept. 29, 1964.

AUTHOR: Sigodin, I.G. (Moscow) SOV-47-58-5-19/28

TITLE: An "All-Class" Experiment in the 7th Class (Frontal'nyy eksperiment v VII klasse)

PERIODICAL: Fizika v shkole, 1958, Nr 5, pp 74-77 (USSR)

ABSTRACT: The theme "Electromagnetic Phenomena" can be treated in the 7th class to great methodical benefit by applying an "all-class" (the entire class participating) experiment, provided ordinary equipment is available. The article contains a detailed description of 4 lessons during which experiments are carried out by all the students themselves, the teacher giving the necessary explanations. The first lesson deals with the magnetic field of an electric current; the second - the magnetic field of coils and electromagnets; the third - electric bells; the fourth - morse telegraph.

1. Physics--Study and teaching

Card 1/1

S/0074/64/033/004/0439/0461

ACCESSION NR: AP4033680

AUTHOR: Sigodina, A. B.; Nikolayev, N. I.; Tunitskiy, N. N.

TITLE: Ion exchange kinetics in sulfonated cation exchange resins

SOURCE: Uspekhi khimii, v. 33, no. 4, 1964, 439-461

TOPIC TAGS: ion exchange kinetics, cation exchange sulforesin, film diffusion, autodiffusion, ion microcomponents, electroconductivity

ABSTRACT: This is a treatise prompted by the fact that preparation of high quality ion exchange resins and their regeneration is only possible if data about them both in steady as well as kinetic states are known. Ion exchange in steady state is well known, but there is a scarcity of information on ion exchange kinetics. This article consists of the following sections: 1. The fundamentals of ion exchange kinetics theory in which the following aspects are mathematically analyzed: a) diffusion through the solution film adjacent to the ion exchange resin at constant concentration of the outside solution; b) diffusion through the film at variable concentration of the outside solution; c) diffusion in the ion exchange particle at constant concentration of the outside solution; d) diffusion taking place simulten-

Card 1/3

ACCESSION NR: AP4033680

of ions in the ion exchange resin is determined by electroconductivity measurements. Orig. art. has: 6 figures, 18 formulas, 10 tables.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute)

SUBMITTED: 00 DATE ACQ: 07May64 ENCL: 00

SUB CODE: GC, GP NO REF SOV: 024 OTHER: 049

Card! 3/3

L 27865-65 EWT(m)/EPF(c)/EWG(m)/EWP(j)/T Pc-4/Pr-4 RWH/GS/RM
ACCESSION NR: AT4049843 S/0000/64/000/000/0076/0079 26 25

AUTHOR: Sigodina, A. B.; Cherneva, Ye. P.; Kargin, V. A. 1 B+1

TITLE: Preparation of new, polymeric, homogeneous ion exchange membranes

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 76-79

TOPIC TAGS: styrene copolymer, styrenesulfonic acid, polymer film, polymer conductivity, ultraviolet irradiation, ammonium persulfate, zinc chloride, ion exchange membrane, acrylic acid copolymer, methacrylate copolymer, vinylacetate copolymer

ABSTRACT: A method is described for preparing polymeric, homogeneous ion-exchange membranes based on a copolymer of the n-propyl ester of styrenesulfonic acid and its potassium and sodium salts with other film-forming monomers without using divinylbenzene as a crosslinking agent. The procedure for preparing the monomer is described in detail. The n-propyl ester of styrenesulfonic acid had a b.p. of 23-26 C/20mm, $n_D^{25} = 1.5374$ and $d_{25}^{25} = 1.165$. A homogeneous ion-exchange film based on the copolymer of n-propyl styrenesulfonate and vinyl acetate was prepared by irradiation with a quartz lamp. Its capacity (based on Na) was 4.6 meq/g of dry membrane

Card 1/2

SUB CODE: OC, GC

OTHER: 008

BRUSILOVSKIY, D.A.; BULGAKOV, L.N.; GENIS, B.M.; KVARTIN, L.M.; KRASOVSKIY, Ye.S.; MIKHAYLOV, D.I.; NATOCHANNYY, A.S.; NIKOL'SKIY, V.N.; POPOV, M.P.; SIGODZINSKIY, A.A.; SKOMOROSHKIN, A.F.; CHASOVNIKOV, G.V.; DEMBISHER, A.V., kand. ekon. nauk, red.; DULKIN, N.A., spets. red.; BONDAROVSKAYA, G.V., red.; TORSHINA, Ye.A., tekhn. red.

[Overall automation and modernization of equipment and production processes at the First State Bearing Plant] Kompleksnaia avtomatizatsiia i modernizatsiia oborudovaniia i protsessov proizvodstva na Pervom gosudarstvennom podshipnikovom zavode. Moskva, TSentr. biuro tekhn. informatsii, 1959. 84 p. (MIRA 15:1)

1. Russia (1917- R.S.F.S.R.) Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. (Moscow--Bearing industry) (Automation)

SIGOL, N.N.

Electrocardiography in hypertension and angina pectoris during dibasol therapy. Klin. med., Moskva 31 no. 1:51-55 Jan 1953. (CLML 24:1)

1. Kazan'.

SIGOLAYEV, G.

The organization of operations; from the practice of the Nikolayev branch of the State Bank. Den. i kred. 13 no.8:38-42 Ag'55.
(Banks and banking) (MLRA 8:11)

SIGOLAYEV, G.

When examination of performance is absent. Fin. SSSR 16 no.3: 53-54 Mr '55. (MLRA 8:2)
(Nikolaev Province--Banks and banking)

SIGOLAYEV, G.

Utilize tabulating machines effectively. Den. i kred. 14 no.7:42-44 Jl '56. (Machine, Accounting) (MLRA 9:9)

SIGOLAYEV, G.; TOLKACHEV, I.

"Use of the 'SDU-110' and 'SDU-138' in the State Bank" by I.Kolychev. Reviewed by G.Sigolaev, I.Tolkachev. Den. i kred. 15 no.1:55-57 Ja '57. (MLRA 10:3)
(Calculating machines) (Banks and banking) (Kolychev, I.)

SIGOLAYEV, G.

Our practice. Den. i kred. 18 no.9:66-69 S '60. (MIRA 13:8)

1. Glavnyy bukhgalter Khersonskoy oblastnoy kontory Gosbanka.
(Kherson Province--Banks and banking--Accounting)
(Machine accounting)

SIGOLAYEV, G.

Do we need a general ledger? Den.i kred. 18 no.11:63-65 N'60.
(MIRA 13:11)

1. Glavnyy bukhgalter Khersonskoy oblastnoy kontory Gosbanka.
(Kherson Province--Banks and banking--Accounting)

SIGOLAYEV, G.; PANASENKO, A.

State bank business and people. Den. i kred. 19 no.11:43-51 N '61. (MIRA 14:12)

1. Glavnyy bukhgalter Khersonskoy oblastnoy kontory Gosbanka (for Sigolayev). 2. Upravlyayushchey Petropavlovskim otdeleniyem Gosbanka (for Panasenko).
(Genichesk—Banks and banking—Auditing and inspection)
(Petropavlovka (Dnepropetrovsk Province)—Banks and banking)

SIGOLAYEV, G.

Adding a percentage based on individual accounts. Den. i kred. 19 no.12:73-77 D '61. (MIRA 14:12)

1. Glavnyy bukhgalter Khersonskoy oblastnoy kontory Gosbanka.
(Kherson—Banks and banking)

SIGOLAYEV, G.

Another item for machine accounting. Den. i kred. 21 no.5:74-76 My '63. (MIRA 16:5)

1. Glavnyy bukhgalter Khersonskoy oblastnoy kontory Gosbanka.
(Kherson--Banks and banking--Accounting) (Wages)
(Machine accounting)

SMOL'CHENKO, I.P.; SIGOLAYEV, I.Z.

Method for treating diseases of the brachial plexus at the Pyatigorsk Health Resort. Vop. kur., fizioter. i lech. fiz. kul't. 26 no. 2:166-168 Mr-Ap '61. (MIRA 14:4)

1. Iz Pyatigorskogo sanatoriya Ministerstva oborony SSSR (Nachal'nik A.N. Semichev).
(BRACHIAL PLEXUS--DISEASES)

SIGOLAYEV, S.YA. DECEASED c 1957 1961/2

SEE IIC

METALLURGY

SIGOR, V. V.; KOREL'SKAYA, Ye, Engs.

Wood Alcohol

Increased output of strengthened methanol by periodic alcohol stills.
Der. i lesokhim prom. 2 No. 3, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

NICHIK, G.P.; SIGORSKIY, A.A., redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor.

[Aerial gunnery] Strel'ba v vozdukhe. Moskva, Gos. izd-vo oboronnoi promyshlennosti, 1953. 302 p. [Microfilm] (MLRA 8:1)
(Aerial gunnery)

SIGORSKIY, N.I.

Impregnation of fabrics with "melaform." Tekst.prom. 16 no.2: 39-40 F '56. (MLRA 9:5)

1. Zaveduyshchiy laboratoriyey Leningradskoy shkonnoy fabriki.
(Textile finishing) (Formaldehyde)

SIGORSKIY, M.I.

Applying the speed method for determining moisture and fat content. Tekst.prom. 16 no.7:56 Jl '56. (MLRA 9:8)

1. Zaveduyushchiy khimicheskoy laboratoriyey Leningradskoy sukonnoy fabriki.

(Wool)

SIGORSKIY, N.I.

Determination of crease tendency in fabrics. Tekst.prom. 16 no.9:47 S '56. (MLRA 9:12)

1. Zaveduyushchiy laboratoriyey Leningradskoy sukonnoy fabriki.

(Leningrad--Textile fabrics--Testing)

SIGORSKIY, V., doktor tekhn. nauk

Communist labor research. Sov. profsoiuzy 19 no.17:10-13 S '63. (MIRA 16:11)

1. Predsedatel' ob"yedinennogo komiteta profsoyuza Sibirskogo otdeleniya AN SSSR.

SIGORSKIY, V. P.

"The Design of Vacuum Tube Circuits," Radio Tekh, July, 1954

KARANDEYEV, Konstantin Borisovich; SIGORSKIY, V.P., kand.tekhn.nauk, otv. red.; ZIL'BAN, M.S., red. izd-va; RAKHLINA, N.P., tekhred.

[Semiconductor rectifiers used in measurment technology] Poluprovodnikovye vypriamiteli v izmeritel'noi tekhnike. Kiev, Izd-vo Akad. nauk USSR, 1954. 229 p. (MIRA 12:1)
(Electric current rectifiers) (Electric measurements)

SIGORSKIY,V.P.

Topics in the theory of four-poles with three sides. Nauch.zap. IMA L'viv. fil. AN URSR. Ser.avtom. i izm. tekh.3 no.2:39-67 '54. (Electric circuits) (MLRA 8:11)

SIGORSKIY, V.P.

Generalization of the nodal voltage method. Nauch.zap. IMA L'viv fil. AN URSR. Ser. avtom. i izm. tekh. 3 no.2:68-83 '54. (MLRA 8:11)
(Electron-tube circuits)

KURSIN, S.A., kandidat tekhnicheskikh nauk; MIKHAYLOVSKIY, V.N., kandidat tekhnicheskikh nauk; SIGORSKIY, V.P., kandidat tekhnicheskikh nauk.

Water measurement problem of irrigation canals. Gidr. i mel. 6 no. 12:33-40 D '54. (MLRA 8:1)
(Irrigation canals and flumes) (Flow meters)

FD-1058

USSR/Electronics - Circuits

Card Pub 90-6/12

Author : V. P. Sigorskiy

Title : Calculation of circuits with electron tubes

Periodical : Radiotekhnika 9, 57-67, Jul/Aug 1954

Abstract : Author presents a method for calculating electron tube circuits by finding the determinant of a system of equations for block voltages directly from the circuit. The method is based on E. V. Zelyakh's theory of N- and p+1- terminal networks. Use of the method is illustrated in examples of the calculation of amplifiers with feedback. Fourteen references; 12 Russian (1936-1952). Diagrams.

Institution : --

Submitted : 7 September 1953

SIGORSKIY, Vitaliy Petrovich; LISENBART, D.K., redaktor; KARANDEYEV, K.B., zasluzhennyy deyatel' nauki i tekhniki USSR, professor, doktor tekhnicheskikh nauk, redaktor; SIVACHENKO, Ye.K., tekhnicheskiy redaktor

[General theory of quadrupoles] Obshchaia teoriia chetyrekhpoliusnika. Kiev, Izd-vo Akademii nauk USSR, 1955. 314 p. (Electric circuits) (MLRA 9:3)

SOV/112-57-5-10505

8 (2)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, p 139 (USSR)

AUTHOR: Karandeyev, K. B., Sigorskiy, V. P., Sobolevskiy, K. M.

TITLE: Effect of a Resistance in the Supply-Source Diagonal on the Sensitivity of an AC Bridge (Vliyaniye soprotivleniya v diagonali istochnika pitaniya na chuvstvitel'nost' mosta peremennogo toka)

PERIODICAL: Dokl. L'vovsk. politekhn. in-ta, 1955, Vol 1, Nr 2, pp 132-135

ABSTRACT: It is pointed out that with an appropriate value of impedance connected in the supply-source diagonal, the bridge sensitivity remains practically constant for a wide range of arm ratios.

Z.I.Z.

Card 1/1

KARANDEYMV, K.B.; SIGORS'KIY, V.P.

On a theorem of current variation. Dop. AN URSR no.3:245-248 '55.

1. Institut mashinoznanstva ta avtomatiki Akademii nauk URSR. Predstaviv diysniy chlen Akademii nauk URSR G.M.Savin
(Electric currents)

SIGORSKIY, V. ...

[redacted]le conversion and the symmetry of quadrupoles with three sides.
Nauch. zap. IMA AN URSR. Ser. avtom. i izm. tekh. 4:59-79 '55.
(Electric networks) (MLRA 10:8)

SIGORSKIY, V.P.

Generalization of closed-circuit currents. Nauch. zap. IMA AN URSR. Ser. avtom. i izm. tekh. 4:80-97 '55. (MLRA 10:8)
(Electric circuits)

SOV/112-57-5-10506

8 (2)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, p 139 (USSR)

AUTHOR: Karandeyev, K. B., Sigorskiy, V. P., Sobolevskiy, K. M.

TITLE: On the Theory of a Balancing Branch
(K teorii simmetriruyushchey vetvi)

PERIODICAL: Nauch. zap. In-ta mashinoved. i avtomatiki, AS UkrSSR, 1955, Vol 5, pp 5-19

ABSTRACT: Formulae are presented to determine the necessary adjustments for resistors in the balancing branch arms and to determine the permissible relative variation of parasite conductances for a specified measuring error of the bridge. Application of the formulae is illustrated by an example.

Z.I.Z.

Card 1/1

112-3-5104

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 6 (USSR)

AUTHOR: Sigorskiy, V. P.

TITLE: Theory of the 2n-Terminal Network (K teorii 2n-polyusnika)

PERIODICAL: Nauch. zap. In-ta mashinoved. i avtomatiki AN Ukrainskoy SSR, 1955, Vol. 5, pp. 109-117

ABSTRACT: Presented is a method for determining the parameters of the 2n-terminal network by means of the parameters of transfer four-terminal networks formed by short-circuiting or open circuiting all sides but two of the 2n-terminal network; these two sides serve as the input and output of the four-terminal network. To determine all parameters of the 2n-terminal network, it is necessary to investigate n(n - 1)/2 four-terminal networks.

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ASSOCIATION: Institute of Machinery and Automation of the Academy of Sciences of the Ukrainian SSR (In-t mashinoved. i avtomatiki AN USSR)

Card 1/1

SIGORSKIY, V.P.

Determination of quadrupole circuits parameters containing electronic tubes. Nauch.zap. IMA AN URSR. Ser.avtom. i izm. tekh. 5:118-135 '55. (MLRA 9:10)

(Electron-tube circuits)

SIGORSKIY, V.P.; SPEKTOR, Yu.I.

Analysis of parallel-T circuits. Nauch.sap. IMA AN URSR. Ser.avtom. i izm. tekh. 5:136-157 '55. (MLRA 9:10)

(Electric circuits)

SOV/112-57-5-9700

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, p 6 (USSR)

AUTHOR: Sigorskiy, V. P.

TITLE: Method of Finding the Determinant for a Set of Nodal Equations (O metodike nakhozhdeniya opredelitelya sistemy uzlovykh uravneniy)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-ta, 1955, Nr 27, pp 19-23

ABSTRACT: A method for finding the determinant of a set of equations is set forth; the determinant is based on a nodal-voltage method and is used for calculating electronic circuits. According to this method, a circuit with (n + 1) nodes is reduced to the form of a nonautonomous (n + 1)-pole. The latter is a result of the parallel connection of elementary subcircuits whose number of poles is brought to (n + 1) by adding a corresponding number of isolated nodes. A multipole matrix is found by addition of matrices of component subcircuits; the system determinant can be easily obtained from the multipole matrix. Bibliography: 7 items.

T.A.T.

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